



中国船级社  
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.  
BG20PTA00001\_06

型式认可证书  
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

Zenitel Norway AS

地址/Address

Sandakerveien 24C, 0473 Oslo, Norway

产品名称/Product

船内通信设备  
Internal Communication Equipment  
船用公共广播系统,通用紧急报警系统  
Marine Public Address System, General Emergency Alarm System

附加标志/Notations

无/Nil.

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》(2018)及其修改通报第4篇第1,2章  
Chapter 1&2, Part Four of China Classification Society Rules for Classification of Sea-Going Steel Ships 2018 and its Amendments
2. 经MSC.218(82)修正的MSC.48(66)《国际救生设备规则》第七章  
Chapter VII of MSC.48(66) International Life-saving Appliance Code, as amended by MSC.218(82).
3. 国际海事组织(IMO) A.1021(26)决议《2009警报器和指示器规则》  
IMO Resolution A.1021(26) CODE ON ALERTS AND INDICATORS, 2009
4. 国际海事组织A.813(19)决议《所有船用电气和电子设备电磁兼容性(EMC)的一般要求》  
IMO Resolution A.813(19) General requirements for electromagnetic compatibility for all electrical and electronic ship's equipment
5. 国际海事组织海安会MSC/Circ.808通函《客船公共广播系统性能标准建议案》  
IMO MSC/Circ.808: Recommendation on Performance Standards for Public Address on Passenger Ships, Including Cabling
6. IEC 60945:2002/COR1:2008《船用航行和无线电通信设备及系统-通用要求-试验方法和试验结果的要求》  
IEC 60945:2002/COR1:2008 Maritime Navigation and Radiocommunication Equipment and Systems - General Requirements - Methods of Testing and Required Test Results

证书有效期至/This Certificate is valid until 2024年08月26日/ Aug. 26, 2024

发证机构 中国船级社卑尔根办事处  
Issued by CCS Bergen Office

签发日期 2020年08月27日  
Date Aug. 27, 2020

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体,必须同时使用。纸质证书每页均须由本社盖章方为有效,电子证书含数字签名方为有效,本证书复印件无效。任何单位和个人不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时,可以向本社检验机构咨询。This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.

Form No: Q01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)



UTN:P020-00607411

**用于/Intended for**

船舶与海上设施/Ships and Offshore Installations

**产品明细/Product Description****船用公共广播系统/Marine Public Address System (M0001)**

名称/Name	属性(值)/Value	单位/Unit
型号/Type	SPA-V2	
系统组成/System Component	Refer to the additional page	

**通用紧急报警系统/General Emergency Alarm System (M0001)**

名称/Name	属性(值)/Value	单位/Unit
型号/Type	SPA-V2	
系统组成/System Component	Refer to the additional page	

**批准的图纸/Approved Drawings**

图纸批准号/ Drawings Approval No. : BG17A00006

**产品认可试验报告/ Approval Test Report**

试验报告编号/ Test Report No. : DANAK-198453

试验报告日期/ Test Report Date : 2006-07-28

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-197395

试验报告日期/ Test Report Date : 2004-05-12

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : DANAK-1911533

试验报告日期/ Test Report Date : 2011-08-19

试验单位/ Laboratory: DANAK

试验单位地址/ Test Address: Denmark

试验报告编号/ Test Report No. : Performance Test DNV PA/PG Type Approval of SPA-V2 System

试验报告日期/ Test Report Date : 2008-04-20

试验单位/ Laboratory: Zenitel Norway AS

试验单位地址/ Test Address: Norway

**认可后的产品检验方式/ Method of Product Inspection after Approval**

认可后的产品检验由制造厂按本社批准的产品检验计划进行, 本社在文件审核合格后颁发船用产品证书。

After approval, product inspection should be carried out by the Manufacturer in accordance with the product inspection scheme approved by the Society, and the Marine Product Certificate is issued by the Society upon satisfactory documents review.

**认可保持条件/ Maintenance Requirements of Approval**

1. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行，并且与认可时一致。如果质量管理体系发生改变，应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内，如果出现可能导致本社取消认可的情况，工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内，本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核，以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 型式认可A证书获得者应接受本社每年一次的定期审核，定期审核日为认可证书期满之日对应的每一周年日，检查工作应在周年日的前后三个月内进行。

Those who have obtained the certificate of type approval A should be subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

### 备注/Remarks

1. 本证书由原型式认可证书 (No. BG17T00006\_06) 变更并替代原证书。

This Certificate is modified from and supersedes the previous Type Approval Certificate No. BG17T00006\_06.

2. . Approval history:

Initial approval - HBT03430090;

First renewal - GB09T00012\_06;

Second renewal - GB13T00021\_06;

Third renewal - BG17T00006\_06;

Change of approval and first module A type approval - BG20PTA00001\_06.

3. The SPA-V2 Public Address and General Alarm system can be provided as either:

1.1 Public Address system only;

1.2 Integrated PA and GA system (the system should be duplicated).

When the system used as Public Address system on passenger vessel, it should be duplicated arranged. The equipment is to be installed in protected environment.

4. 本社已审核了产品厂无石棉声明，但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。

The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society.

However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社卑尔根办事处

CCS Bergen Office

注：本证书含有附页，共1页

Note: The certificate is attached with additional 1 page(s)

## SPA-V2 component list

Equipment	Type
Amplifiers	- Zenitel: VPA-120 (120W), VPA-240 (240W), VPA-400(400W), EA1400 (400W), EA1600 (600W) - Paso: AW-8121 (120W), AW-8241 (240W), P-8501 (500W)
Microphone panels	SPA-M1-V2, SPA-M1-D, SPA-M6-V2, SPA-M6-D
Alarm panels	SPA-AC6, SPA-AC6-D
Combined alarm and microphone panels	SPA-W1-V2, SPA-W1-D, SPA-W1AR-V2, SPA-W1AR-D, SPA-W6A4 and SPA-W6A4-D
Volume Controls (not be used on the Bridge)	VM5-R, VM15-R, VM50-R, VM15-RD, VM50-RD, VM15-RDF, VM50-RDF, VCOR-15, VCOR-15F, VCOR-60, VCOR-60F
Function boards	SPA-TERM-V2, SPA-CHIME-V2, SPA-EMS-V2, SPA-FAIL, SPA-MUL-V2, SPA-EE3-V2, SPA-EE3D-V2, SPA-AL-REL-V2, SPA-VDR-V2, SPA-REL-V2, SPA-DUALAL-V2
Racks	Paso 58xx-D, in which the xx means the height in HU- units.
Power Supply Unit	DR4524
Speakers	DST-100, DH50, HP-30TF, HP-20TF, HP-15TF, HP-10TF, HP-6TF, VLS-15TF, CL-200T, CAR-6TF, CAR-4TF, HPS-6CTF, SAFE-10PTF, SAFE-50TF, CW-4TF, CW-4TVS, DSP-25EEXMNT, DSP-15EEXMNT, DSP-15EEXMNL, CP-66T, BIVEP-6T, CLMQ-200T, SAFE-M6T, CLWT-135T, BSWT-6T

